

The Laboratory of Polymer and Soft Matter Dynamics of the Université libre de Bruxelles (ULB) is happy to invite you to

# **BDS2018**



## INVITED SPEAKERS

who have already confirmed their participation

Karolina Adrjanowicz (Poland) Angel Alegría (Spain) Roland Böhmer (Germany) - Daniele Cangialosi (Spain) Simone Capaccioli (Italy) - Silvina Cerveny (Spain) Shiwang Cheng (USA) - Madalena Dionisio (Portugal) Yuri Feldman (Israel)- George Floudas (Greece) Koji Fukao (Japan) -Catalin Gainauru (Germany) Friedrich Kremer (Germany)- Apostolos Kyritsis (Greece) Jane Lipson (USA) - Kia Ngai (USA) - Kristine Niess (Denmark) Aurora Nogales (Spain) - Ryusuke Nozaki (Japan) Marian Paluch (Poland) - Ivan Popov (Israel) Ranko Richert (USA) - Mike Roland (USA) Alejandro Sanz (Denmark) - Joshua Sangoro (USA) Andreas Schönhals (Germany) - Anatoli Serghei (France) Alexei Sokolov (USA) - žaneta Wojnarowska (Poland) Michael Wübbenhorst (Belgium) - Alessio Zaccone (UK) Broadband dielectric spectroscopy (BDS) is a powerful experimental technique permitting to investigate the molecular dynamics of polar (and nonpolar) materials over a wide frequency range covering up to 16 decades, at different temperatures and pressures.

SCOPE

BDS finds an incredibly large number of applications in different fields of science and technology. The technique has, in fact, been successfully employed in studies on molecular dynamics of liquids, liquid crystals, glasses, polymers and other disordered systems; charge transport in ionic glasses and liquids, semiconductors, organic crystals, ceramics, polymers; interfacial phenomena and confinement effects; non-linear electrical effects. BDS is also a very useful tool to monitor chemical reactions and phase transitions, e.g. crystallization, irreversible adsorption, tautomerization, etc.

Considering the multidisciplinary approach and the broad set of applications of the technique, this meeting is open also to researchers outside of the dielectric community whose research could start new synergies at both experimental and theoretical level.

Following the structure of the previous meetings of the International Dielectric Society, BDS2018 will provide a platform to discuss the exciting developments of Broadband dielectric spectroscopy at both academic and industrial level. The following topics will be addressed in devoted sessions:

- o Polymer Dynamics
- Soft Matter Dynamics and Phase Transitions in Amorphous, Partially Ordered and Ordered Systems (Liquid and Plastic Crystals, Ferroelectrics, Ceramics, Pharmaceuticals, etc.)
- Glassy Dynamics and its Scaling under Different Variables (Pressure, Temperature, Electric Fields, etc.)
- Investigation of Confinement Effects
- o Non-Linear Electrical Effects
- $_{\odot}$  Terahertz Spectroscopy and Local Dielectric Spectroscopy
- Industrial applications
- Dielectric Spectroscopy Spatially Resolved at Micro- and Nanoscale
- Water and Hydrogen Bonded Systems, BDS to Life Science
- o Charge Transport and Relaxation & Interfacial Phenomena

# VENUE

The conference will be held in the Campus du Solbosch, the historical site of the Université libre de Bruxelles (ULB), in the city of Brussels.

## REGISTRATION

Detailed information will appear on the conference website <u>http://bds2018.ulb.be</u> by February 2018

#### ORGANIZATION

Chairperson	Simone Napolitano	
Local Committee	G. Bruylants, T. Donneux, P.Gaspo Y.Geerts, T. Gilbert, B. Mognetti, M. Sferrazza A. Jonas	ard, (ULB) (UCL)
Administration	Françoise Van Eycken	

Contact: bds2018@ulb.ac.be